

PROCEEDINGS OF THE ENTOMOLOGICAL SOCIETY OF AMERICA.

Philadelphia Meeting.

The first meeting of the Entomological Society of America was opened on Wednesday evening, December 30th, by President Philip P. Calvert in the large lecture room of the Philadelphia Academy of Natural Sciences for the giving of the Annual Public Address. The speaker of the evening was Professor Stephen Alfred Forbes of the University of Illinois. His subject was, "Ecological Foundations of Applied Entomology." In compliance with the request of the Executive Committee at the Atlanta meeting, Dr. Henry Skinner of the Philadelphia Academy of Natural Sciences presented a "History of the Entomological Society of America." In addition to the history of the Society, Dr. Skinner showed pictures of many of the pioneer entomologists of America. The slides were prepared from photographs, of which the American Entomological Society has the largest collection in America. The speakers were greeted by a large and enthusiastic audience. After the completion of the addresses, the audience adjourned to the Library of the Academy, where the local entomologists entertained the visitors at a smoker. The exceptionally large number of visiting entomologists and the large number of persons in and about Philadelphia interested in collecting and studying insects, made it a great opportunity for the meeting of friends and acquaintances. It was pronounced by all a most enjoyable evening.

The Society was honored at this meeting by the attendance of the pioneer American hymenopterologist and Honorary Fellow of the Society, Mr. Ezra Townsend Cresson.

The meeting for the reading of papers was called to order by President Calvert at 10:00 A. M., Thursday, December 31st., in Class Room D of the Veterinary Building of the University of Pennsylvania. The following committees appointed previous to the meeting were announced.

Committee to draft resolutions on the death of Mr. H. H. Lyman.—Rev. C. J. S. Bethune, Dr. W. J. Holland, and Dr. E. A. Smyth.

Committee to draft resolutions on the death of Mr. J. A. Grossbeck.—Dr. Frank E. Lutz, Mr. Wm. T. Davis, and Mr. E. L. Diekerson.

Committee to draft resolutions on the death of Dr. William Saunders.—Rev. C. J. S. Bethune, Mr. F. M. Webster, and Dr. C. Gordon Hewitt.

The President was directed by motion to appoint the following committees: Committee on Resolutions; Committee on Nominations; Auditing Committee.

The following papers were then read, but in compliance with the action of the Executive Committee only titles are given:

C. P. GILLETTE, Colorado Agricultural College.—Food Habits of Some Colorado Aphids.

CORNELIA F. KEPHART, Cornell University.—The Poison Glands of *Automeris io* Fabr.

NATHAN BANKS, U. S. Bureau of Entomology.—Geographical Distribution of Neuropteroid Insects, together with an Analysis of our Insect Fauna.

PAUL S. WELCH, Kansas Agricultural College.—The Biology of *Nymphula maculalis* Clemens. Read by title.

V. E. SHELFORD, University of Illinois.—Modification of Tiger-beetle Colors by Temperature and Moisture.

L. HASEMAN, University of Missouri.—Life-history, Development, and Work of Unspotted Tentiform Leaf-miner of Apple. Read by title.

EDNA MOSHER, University of Illinois.—Pupal Characters Used in the Classification of the Sphingidæ. Presented by the Secretary.

J. M. ALDRICH, U. S. Bureau of Entomology.—Results of twenty-five Years Collecting of the Tachinidæ.

MORTIMER D. LEONARD, Cornell University.—Notes on Capsid Life-histories.

W. D. FUNKHOUSER, Ithaca High School.—Notes on the Life-histories of certain Membracidæ.

The President announced the following committees:

Committee on Resolutions.—F. M. Webster, Henry Bird, and J. S. Houser.

Committee on Nominations.—J. Chester Bradley, C. P. Gillette, and J. A. Nelson.

Auditing Committee.—Wm. T. Davis, J. H. Emerton, and Frank Morton Jones.

The Society then adjourned to meet at 2:00 P. M.

R. A. COOLEY, Montana Agricultural College.—A Photographic Record of the Development of the Female *Lepidosaphes ulmi* Linn.

C. H. TYLER TOWNSEND, U. S. National Museum.—On Proper Generic Concepts.

ANNA GRACE NEWELL, University of Illinois.—The Homology of the Genitalia of *Benacus griseus*.

On motion the Society adjourned for the remainder of the afternoon so that the members could attend the Symposium being held by the American Society of Naturalists on the subject, "The Value of Zoology to Humanity."

The Society reconvened at 10:00 A. M., Friday, January 1st., 1915 for the Annual Business Meeting and the presentation of the remaining papers of the program.

The Committees appointed to present resolutions on the death of Mr. H. H. Lyman, Mr. J. A. Grossbeck, and Dr. William Saunders presented their reports. They were ordered accepted and printed.

The Secretary presented the following report for the Executive Committee which met in Room 109, Zoological Laboratory University of Pennsylvania, Wednesday, December 30th. There were eight members in attendance, Messrs Calvert, Needham, Hewitt, MacGillivray, Osborn, Banks, Felt, and Aldrich.

REPORT OF THE EXECUTIVE COMMITTEE.

The only matter submitted to the Executive Committee by the Secretary in the interim since the last Annual Meeting was the selection and appointment of Professor Stephen Alfred Forbes to give the Annual Public Address at the Philadelphia meeting.

The following twelve new members were elected by the Executive Committee June 1st, 1914:—

M. T. Smulyan	S. W. Frost
George W. Barber	Herbert Rieckes
J. Howard Gage	Dwight Isely
Sarah E. Maul	Alice A. Noyes
Adolph I. Fabis	William A. Hoffman
R. P. Dow	Philip Garman

The following members have died during the past year:—

J. A. Grossbeck	H. H. Lyman
G. T. O. Mueller	

The following resignations were presented and accepted:—

Joseph Bridgham	Ida M. Elliot
Owen Bryant	J. P. Jensen
Harrison G. Dyar	H. A. J. McElhose
Evelyn G. Mitchell	

The names of fifteen members were dropped from the rolls by the Secretary for the non-payment of dues.

The following were elected to membership by the Executive Committee at its meeting on Wednesday:—

Gal. G. Annals.	H. G. Champion
Edward A. Agar	Royal N. Chapman
Gertrude A. Bacon	H. D. Chase
John W. Bailey	R. N. Chrystal
J. Percy Baumberger	C. P. Clausen
G. E. Benschel	C. J. Cole
A. G. Boving	Nicholas E. Crosby
B. L. Boyden	S. S. Crossman
Henry W. Brolemann	Edward M. Dadd
Alfred E. Cameron	Andrew A. Dalglish
Seth Bunker Capp	C. A. Dawson
Henry F. Carter	George O. Day

- Joseph J. De Gryse
 D. M. DeLong
 Johannes Dewitz
 Paul Dognin
 Walter E. Dove
 A. B. Duckett
 John E. Dudley, Jr
 E. H. Dusham
 John Eckert
 J. M. Enburg
 Robert Etheridge
 J. C. Evenden
 G. F. Ferris
 Theodore Frison
 Angel Gallardo
 Gerson Garb
 Gustave Gilson
 Murray O. Glenn
 Emol August Goeldi
 Guido Grandi
 Charles T. Green
 Percy H. Grimshaw
 Charles J. Grist
 J. E. Gutberlet
 V. R. Haber
 Henry Hacker
 H. R. Hagan
 J. E. Hallinen
 C. C. Hamilton
 C. W. Hauck
 Frank B. Herbert
 Alfred Hetschko
 A. H. Hollinger
 Neale F. Howard
 W. George Howes
 William S. Huntington
 Georg Jacobson
 F. P. Keen
 C. H. Kennedy
 Harold H. King
 Francis Klapelek
 Anton Krausse
 E. W. Laake
 H. K. Laramore
 W. H. Larrimer
 David T. Larsen
 Cyril E. Latour
 H. S. Leigh
 Frank M. Littler
 T. P. Lucas
 W. L. McAtee
 Simon Marcovitch
 Eva Grace Miller
 A. A. C. de Carvalho Monteiro
 Martin E. Mosely
 John C. Moulton
 Roe Niver
 Charles Oberthur
 Joseph Oizam
 Mary H. Oliver
 Francis H. O'Neill
 Charles J. Pierson
 J. J. Pillsbury
 Carlos E. Porter
 H. A. Preston
 C. A. Reese
 H. J. Reinhard
 S. G. Rich
 C. H. Richardson, Jr
 Frederick Ris
 H. A. Ritchie
 Kurt Baron von Rosen
 Arthur H. Rosenfeld
 Nai Nab Salakshana
 Rene Vitalis de Salvaza
 H. E. Schradieck
 P. W. A. Scott
 F. Hazelton Smith
 Loren B. Smith
 Roger C. Smith
 G. J. Spencer
 Frederic V. Theobald
 Pedro Torgansen
 Ivar Tragardh
 Juan Tremoleras
 Major J. B. G. Tulloch
 Conte Emilo Turati
 A. Jefferis Turner
 Chester F. Turner
 B. C. S. Warren
 D. B. Whelan
 William H. White
 C. B. Williams
 R. C. Williams
 P. B. Wiltberger
 William B. Wood
 M. P. Zappe.

TREASURER'S REPORT.

RECEIPTS.

Cash on deposit in the First National Bank, Champaign, Illinois, December 8, 1913.....	\$ 132.44
Life Membership Fees deposited with Cleveland Trust Company, Cleveland, Ohio, July 1, 1914.....	150.00
Interest on Fees of Life Members, July 1, 1914.....	10.07
Cash received from Herbert Osborn, Managing Editor of the Annals....	564.00
Cash collected as Dues.....	915.99
Checks returned and refused payment, money order not negotiable, and subscriptions.....	12.00
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	\$ 1,784.50

BALANCE.

Bills paid, Annals:	
Annals and Separates, June, 1913.....	\$ 270.75
Annals and Separates, September, 1913.....	319.60
Annals and Separates, December, 1913.....	202.95
Annals and Separates, March, 1914.....	226.40
Annals and Separates, June, 1914.....	129.25
Annals, Postage and Expressage.....	39.33
Annals, Engravings.....	61.21
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	\$ 1,249.49
Bills paid, Secretary-Treasurer's Office:	
Stamps and Stamped Envelopes.....	\$ 61.86
Printing and Supplies.....	95.81
Printing 1,000 Booklets.....	16.60
Stenographer and Office Help.....	41.35
Writing Certificates for 1913 and 1914.....	8.65
Telegrams.....	2.21
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	\$ 226.48
Checks returned and refused payment, money order not negotiable, and subscriptions.....	\$ 12.00
Life Membership Fees deposited with Cleveland Trust Company, Cleve- land, Ohio, December 1, 1914, at 4%.....	150.00
Interest on Fees of Life Members deposited with Cleveland Trust Com- pany, December 1, 1914, at 4%.....	10.07
Cash on Deposit in the First National Bank of Champaign, Illinois, December 14, 1914.....	136.46
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	\$ 1,784.50

The names of the following Fellows were recommended to the Executive Committee at the Atlanta meeting for election as Honorary Fellows:—

Charles James Stewart Bethune	John Henry Comstock
Charles Henry Fernald	Eugene Amandus Schwarz.

This recommendation was adopted by the Executive Committee and in accordance with the Constitution was referred to the Fellows for a mail ballot. This ballot was taken during the past year and the Executive Committee now declares them duly elected.

The Managing Editor of the *Annals of the Entomological Society of America* submitted to the Executive Committee the following report for the year ending December 1st., 1914:—

REPORT OF THE MANAGING EDITOR OF THE ANNALS.

The 1914 volume of the Annals has been issued with some delays which have been due in part to the absence of the Editor from Columbus during several weeks of the summer and in part from the uncertainty of the amount available for publication. The volume as completed will contain nearly 400 pages and 45 plates, two of them in color. The numbers have been larger and more profusely illustrated than would have been possible without the contributions of some of the authors. The paper by Professor Triggerson was printed with assistance of a contribution from the author, Professor Gillette of the Colorado Agricultural Experiment Station provided the colored plates accompanying the paper of Miss Palmer, and Messrs. Childs, Severin and McGregor have assisted in the cost of plates for their articles.

The collections for the year have amounted to \$593.69. \$29.68 has been spent on office account and \$564.01 has been turned over to the Treasurer. The income may be classified as follows:—

Subscription Account.....	\$233.06
Sale of Back Numbers.....	133.61
Reprints.....	129.02
Special Contributions.....	98.00
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	\$593.69

While the Editor would have preferred a somewhat larger volume it did not seem practicable with the income at hand and with a considerable deficit from preceding years to involve the Society in any large amount. With the income of the year it has been possible to bring up payments on the back numbers so that the Society is now in fairly good shape and it seems probable that we can maintain a volume of approximately 400 pages per year.

It is very possible that some of our foreign subscriptions may lapse and that there will be few additional sales on the foreign account during the next year. This may reduce our income slightly. On the other hand a considerable addition to the membership list is reported by the Secretary.

Respectfully submitted,

HERBERT OSBORN.

In accordance with Article VII of the Constitution, adopted at the Atlanta meeting, that the Editorial Board of the Annals shall consist of ten members, one of whom shall be the Managing Editor and the other members of the Board shall serve for three years, three members retiring annually, the Executive Committee took the following action. Professor H. C. Fall was elected as the additional member of the Board and the following dates fixed as the time for the retirement of the different members: J. H. Comstock, C. J. S. Bethune and C. W. Johnson to retire in 1915; V. L. Kellogg, L. O. Howard and W. M. Wheeler to retire in 1916; P. P. Calvert, J. W. Folsom and H. C. Fall to retire in 1917.

The following members were elected as Fellows:—

Nathan Banks	A. P. Morse
J. Chester Bradley	P. J. Parrott
W. E. Britton	Edith M. Patch
C. T. Brues	A. L. Quaintance
H. T. Fernald	J. A. G. Rehn
Glenn W. Herrick	W. A. Riley
J. S. Hine	Annie Trumbull Slosson
O. A. Johannsen	E. M. Walker
A. L. Melander	H. F. Wickham
E. B. Williamson.	

The membership of the Society as reported at the Atlanta meeting consisted of one Honorary Fellow, 36 Fellows, and 402 Members. There is reported at this meeting the election of 12 Members on June 1st, the death of one Fellow and two members during the year, the resignation of one Fellow and six Members at this meeting, the dropping from the rolls of the names of fourteen Members for the non-payment of dues, and the election of 120 Members at this Meeting. The present enrollment of the Society consists of 5 Honorary Fellows, 48 Fellows, and 498 Members, or a total of 551.

The Committee consisting of Mr. Nathan Banks and Mr. Morgan Hebard, of which the late Mr. H. H. Lyman was also a member, appointed at the Atlanta meeting to report at this meeting on the feasibility of establishing a Thomas Say Society, presented the following report to the Executive Committee:

THOMAS SAY FOUNDATION.

The Committee on the Thomas Say Society report as follows: They find there is an increasing demand for the means of publication of larger works on American systematic entomology, and they therefore recommend to the Entomological Society of America the following plan for the issuance of such works under the title of "The Thomas Say Foundation."

To accomplish this purpose the Society shall appoint a temporary committee of five members who shall have charge of all matters concerning the Foundation until more definite plans are adopted by the Society.

This Committee shall consist of an Editor, a Treasurer, and three other members, all of whom shall be appointed by the Executive Committee of the Society. They shall be authorized to solicit, hold, and spend subscriptions and funds for the purpose of obtaining a permanent fund for this Foundation and for the issuance of such works on American Systematic entomology as the Committee shall deem worthy of publication.

They shall also be empowered to determine the form, character, price and other details of the publication. The Treasurer of the Entomological Society of America be authorized to pay bills not to exceed fifty dollars for the preliminary expenses of presenting this matter to the entomological public.

This Committee is charged with making a report of their operations and expenditures to the Executive Committee of the Society at its next Annual Meeting.

To put this plan into definite shape the Committee would suggest the following amendment to the Constitution of the Entomological Society of America, which shall be known as Article VIII of said Constitution:

ARTICLE VIII.

SECTION 1. NAME—This fund, the publication, and the committee shall be known as "The Thomas Say Foundation."

SECTION 2. PURPOSE—The purpose of this Foundation is for the publication of works of a monographic or bibliographic character on the insects of North America.

SECTION 3. PUBLICATION—Each publication shall be a volume complete in itself, and numbered consecutively.

SECTION 4. COMMITTEE—This Committee shall consist of six members, four of them to be elected by the Executive Committee of the Society, two retiring annually, and an Editor and a Treasurer to be designated by the Executive Committee.

SECTION 5. POWERS—This Committee is empowered to determine all matters concerning the publication.

SECTION 6. FUNDS—They are also empowered to solicit, hold, invest, and expend funds committed to their care; only the interest from any endowment fund to be available.

SECTION 7. RESPONSIBILITY—The Society shall be in no way responsible for debts contracted by this Foundation, unless previously authorized by the Executive Committee.

SECTION 8. REPORTS—The Editor and Treasurer shall present a report of their operations and expenditures to the Executive Committee at each Annual Meeting, and the accounts of the Treasurer shall be audited by the Auditing Committee of the Society. These reports shall be published as a part of the proceedings of the Executive Committee of each Annual Meeting.

MORGAN HEBARD,
NATHAN BANKS.

The report was adopted by the Executive Committee and the following persons were named as the temporary committee for the Thomas Say Foundation: J. M. Aldrich, Nathan Banks, Morgan Hebard, Alex. D. MacGillivray and E. P. Van Duzee. The Executive Committee empowered this temporary committee to select its own officers.

[The four members of the temporary committee in attendance at the Convocation Week meetings held a meeting at the Academy of Natural Sciences and discussed ways and means of publication and elected Morgan Hebard as Treasurer and Alex. D. MacGillivray as Editor.]

The Executive Committee directed the Secretary to prepare for publication with the proceedings of the Philadelphia meeting, the Constitution, a list of officers, and a list of members.

There have come to the Secretary some reports of the non-receipt of the Certificates of Membership furnished by the Society. The Secretary has mailed a certificate to all those entitled to receive them for each year except the present. He still has some certificates for each year except 1910 and would be glad to supply those who have not received one, as long as the supply lasts.

In order that the Summer Meeting to be held on the Pacific Coast in 1915, may be properly looked after, the Executive Committee recommends the election of Dr. E. C. Van Dyke of the University of California, as Local Secretary. It shall be his duty to arrange the program, act as Secretary for the meetings, and prepare the report of the proceedings of the meetings for publication in the *Annals*.

Dr. C. Gordon Hewitt moved the adoption of the Report of the Secretary-Treasurer and that the motion should include an expression of the Society's deep appreciation of the efforts of the Secretary-Treasurer during the last year in the direction of increasing the membership and scope of the Society, which efforts had been so eminently successful. Motion adopted.

COMMITTEE ON RESOLUTIONS.

Yours committee on resolutions beg to submit the following:—

Resolved, that the thanks of this Society are due, and are hereby tendered to the University of Pennsylvania, the Academy of Natural Sciences, and the local Committee of the American Association for the Advancement of Science in providing for the comforts and pleasures of our members which have added so much to the success and profit of the Society while in this city.

Resolved, that the thanks of the Society be further tendered to the American Entomological Society, the Feldman Collecting Social and other entomologists for their courtesies and entertainment; also to the local press for exceptional courteous treatment, to the local officers for their extremely successful efforts in providing for the expeditious dispatch of the business of the Society, all of which have contributed to make the Philadelphia meeting one of the most successful in the history of the Society.

(Signed) F. M. WEBSTER,
HENRY BIRD,
J. S. HOUSEK.

REPORT OF THE COMMITTEE ON NOMINATIONS.

Your committee begs leave to report the following names as nominees for the various offices for 1915:—

OFFICERS.

President: Vernon Lyman Kellogg, Leland Stanford Junior University, Stanford University, California.

First Vice-President: J. S. Hine, Ohio State University, Columbus, Ohio.

Second Vice-President: J. M. Aldrich, U. S. Bureau of Entomology, Lafayette, Indiana.

Secretary-Treasurer: Alex. D. MacGillivray, University of Illinois, Urbana, Ill.

ADDITIONAL MEMBERS OF THE EXECUTIVE COMMITTEE.

C. T. Brues, Harvard University, Bussey Institution, Forest Hills, Boston, Mass.

W. A. Riley, Cornell, University, Ithaca, N. Y.

E. C. Van Dyke, University of California, Berkeley, Calif.

T. D. A. Cockerell, University of Colorado, Boulder, Colorado.

J. A. G. Rehn, Academy of Natural Sciences, Philadelphia, Pa.

MEMBER OF COMMITTEE ON NOMENCLATURE.

Nathan Banks, U. S. Bureau of Entomology, East Falls Church, Virginia.

(Signed) J. CHESTER BRADLEY,
C. P. GILLETTE,
J. A. NELSON.

On motion, the Secretary was instructed to cast a ballot for the officers named and they were declared elected.

It was later pointed out by a member of the Committee on Nominations that Dr. E. C. Van Dyke, not being a Fellow, was not eligible to election to the Executive Committee. On motion, the Society declared his place vacant and instructed the Executive Committee to fill the vacancy.

(The Secretary has taken a mail ballot of the Executive Committee and Professor A. L. Melander, Washington Agricultural College, Pullman, Washington was elected to the vacant place.)

REPORT OF THE AUDITING COMMITTEE.

December 31st, 1914.

We, the undersigned, have this day examined the accounts of Alexander D. MacGillivray, Treasurer and Secretary of the Entomological Society of America, for the year ending December 14th, 1914, and the accounts of Herbert Osborn, Managing Editor of the *Annals of the Entomological Society of America* for the year ending December 1st, 1914, compared the vouchers therewith and found them correct and properly cast.

(Signed) WM. T. DAVIS,
J. H. EMERTON,
FRANK MORTON JONES.

REPORT OF THE SPECIAL COMMITTEE ON THE SUMMER MEETING
OF 1915.

The committee reports in favor of holding a meeting on the Pacific coast in conjunction with the zoological section of the American Association for the Advancement of Science, the precise dates to be selected by a local committee, the latter to be appointed by the President and authorized to complete the arrangements respecting the program, meeting places, hotel headquarters and other matters essential to a successful gathering.

We recommend that this meeting be as much in the nature of a congress as possible, in order that certain outside entomologists, including a number of foreigners who are expected to be present, may present papers and take part in the discussions. The desirability of presenting papers of general interest or of emphasizing the wider applications of special investigations is mentioned in this connection. A number of smaller entomological societies expect to meet at the same time, and this arrangement will therefore admit of a larger and more enthusiastic gathering. The transaction of any business would naturally be restricted to members of the Entomological Society of America.

It is also felt that in making up the program, cognizance should be taken of the dates when certain general sessions of the zoological section of the A. A. A. S. are held.

The committee considers it very desirable to have a hotel headquarters designated, since this greatly facilitates intercourse between visiting entomologists. Several of the committee favor a banquet of some nature and it is presumable that such a feature would appeal strongly to all in attendance.

The committee would also call attention to the summer zoological camp conducted under the auspices of the University of California and located in the Sierras close to Lake Tahoe. This will be open from the middle of June until the end of July, not only to undergraduates and postgraduates who wish to take up field work, but also to

general entomologists who would care to stop off for a week or so and do a little collecting in the high mountains. The site is ideal, being accessible to the main transcontinental railroad and in one of the most beautiful parts of the Sierras. The location was selected with a view to its accessibility to Eastern entomologists.

Attention of entomologists should also be called to the California Fruit Growers' Convention at Stanford, to be held the week immediately preceding the session of the American Association for the Advancement of Science. This gathering should be of much interest to economic entomologists.

We are informed that a special committee of the American Association for the Advancement of Science expects to issue a scientific handbook* for sale at a low price to members of the American Association and affiliated societies. This publication will give a great deal of information concerning the geography, topography, fauna and flora of California, together with data respecting railways, hotels, etc.

All of which is respectively submitted.

(Signed) E. P. FELT,
V. L. KELLOGG,
A. J. COOK,

W. M. WHEELER,
T. D. A. COCKERELL,
E. C. VAN DYKE.

On motion, the report of the Committee was adopted and the Committee discharged.

The following amendment to the Constitution submitted at the Atlanta meeting was read:—

ARTICLE IV, Section 2.—The business of the Society not otherwise provided for shall be in the hands of an Executive Committee, consisting of the officers named in Section 1, and of six additional members, five of whom shall be elected from the Fellows of the Society, and the sixth shall be ex-officio the Managing Editor. Four members of the Committee shall constitute a quorum.

To be amended to read:

ARTICLE IV, Section 2.—Executive Committee. The business of the Society not otherwise provided for shall be in the hands of an Executive Committee, consisting of the officers named in Section 1, and six additional members, five of whom shall be elected from the Fellows of the Society, and the sixth shall be ex-officio the Managing Editor. There shall be a meeting of the Executive Committee at each Annual Meeting. Four members shall constitute a quorum and in the case of the non-attendance of this number at any Annual Meeting, the Society shall elect a sufficient number from among the Fellows in attendance to complete the quorum.

On motion, the amendment was adopted.

*This handbook is issued by Paul Elder & Co., 239 Grant Avenue, San Francisco, Cal., under the title "Nature and Science on the Pacific Coast" at \$1.50 net.

The following resolution was moved by Dr. J. Chester Bradley:—

That the Committee on Nomenclature be requested to formulate rules for the preservation and fixation of family names, with a view after approval by the Society to ultimately presenting them to the Nomenclatorial Committee of the International Congress of Entomology.

That the Committee on Nomenclature be requested to prepare a list of a few of the more important names in each order which are in danger of being lost or changed in sense by strict application of the rules of nomenclature, which it is desirable should be preserved, and present this list, after approval by the Society to the International Commission on Nomenclature with the request that the rules be suspended in the case of these names, and their use permanently authorized.

On motion, the resolution was adopted and referred to the Committee on Nomenclature.

The following papers were then presented:—

FREDERICK KNAB, U. S. National Museum.—The Nemocera not a Natural Group of Diptera.

ALVAH PETERSON, University of Illinois.—Studies on the Morphology of the Head and Mouth-parts of Diptera. Read by title.

C. P. GILLETTE, Colorado Agricultural College.—Interpretation of the Codling Moth Data from Colorado.

V. E. SHELFORD, University of Illinois.—Modification of the Color Patterns of *Cicindela* by Temperature and Moisture. Read by title.

NATHAN BANKS, U. S. Bureau of Entomology.—Suggestions for Discovering Affinity and Phylogeny.

C. P. GILLETTE, Colorado Agricultural College.—Insect Notes from Colorado.

A. D. MACGILLIVRAY, University of Illinois.—The Modification of the Subcostal Vein in the Wings of Insects. Read by title.

N. E. MCINDOO, U. S. Bureau of Entomology.—The Olfactory Sense of Coleoptera.

JAMES ZETEK, Entomologist Republic Panama.—The Ecology of Plague. Read by title.

F. M. WEBSTER, U. S. Bureau of Entomology.—Importance of Observations apparently Unimportant. Read by title.

HERBERT OSBORN, Ohio State University.—Life-history Studies on the Cercopidae and Jassidae.

C. R. CROSBY, Cornell University.—An Insect Enemy of the Four-lined Leaf-bug. Read by title.

The exhibition was held in Room 112, Zoological Laboratory under the direction of Dr. Philip P. Calvert. The following exhibits were shown:—

J. H. EMERTON.—Circulating Collection of Spiders.

HERMAN H. BREHME.—Life Histories of Economic and other Insects.

HARRY B. WEISS.—An Improved method of Mounting Insects.

On motion, the Society adjourned to meet in one year with the American Association for the Advancement of Science at Columbus, Ohio.

ALEX. D. MACGILLIVRAY, *Secretary*.